



Missouri S&T Magazine, April 1966

Miner Alumni Association

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MSM

April 1966

Alumnus

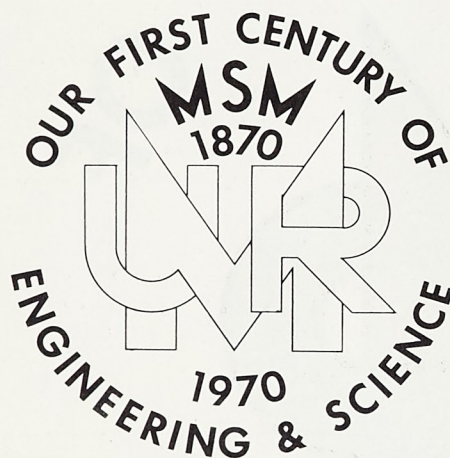
University of Missouri
at Rolla



MSM Alumnus

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This Centennial Emblem was designed by Robert V. Wolf '51, Associate Professor of Metallurgical Engineering. Mr. Wolf's description of the emblem is given on Page 3.

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MSM Alumni Association

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Term Expires

President	R. O. Kasten '43	Armco Steel Corp. 7100 Roberts Kansas City, Missouri 64125	1968
Executive Vice-President	James J. Murphy '35	Murphy Company 4376 Olive Street St. Louis, Missouri 63108	1968
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Executive Secretary	Francis C. Edwards	MSM Alumni Association Grzyb Building 9th & Rolla Streets Rolla, Missouri 65401	
Editor, "MSM ALUMNUS"			

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Allan J. Kiesler '40	2068 Coolidge Place, Schenectady, New York	1968
James A. Vincent '37	3721 Neptune Drive, Orlando, Florida	1968
Rex Z. Williams '31	Rolla State Bank, Rolla, Missouri	1968

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2	J. O. Ferrell '40 1605 North 10th St. Longview, Texas	S. Ark., N. C., S. C., La., Miss. Ala., Ga., Fla.	1966
3	O. W. Kamper '35 608 Villavista, Pittsburgh 34, Pennsylvania	Pennsylvania, W. Va., Ohio, W. Pa., Ky., Tenn., Ind. (Except Chicago Industrial Area)	1966
4	Frank C. Appleyard '37 1209 Milwaukee Ave., Glenview, Ill.	N. Ill., Chicago Industrial Area in Indiana, Wisc., Mich., Minn., Province of Ontario	1966
5	Richard H. Bauer '52 5 Sappington Acres Drive St. Louis 26, Missouri	S. Ill., E. Mo., N. Ark.	1967
6	Bennett D. Howell '50 5518 South 66th East Avenue, Tulsa, Oklahoma	Iowa, W. Mo., Nebr., Kan., Okla.	1968
7	Robert M. Brackbill '42 Texas Pacific Oil Company Box 747, Dallas, Texas	Texas, Arizona, New Mexico	1967
8	F. W. Heiser '39 16 Viking Drive Englewood, Colorado	Ida., Montana, N. D., S. D., Wyo., Colo., Nev., Utah, Provinces of Manitoba, Sask., Alberta	1966
9	William B. Fletcher '34 12081 Smallwood Downey, California	Alaska, Washington, Ore., California, Hawaii	1967

President's Column

The University of Missouri at Rolla is on the move. The largest engineering school west of the Mississippi River, U.M.R. is recognized in every field for its accomplishments. Rolla is second to Georgia Tech among the state-supported technical universities in the United States. Rolla's civil and metallurgical engineering departments are the largest in the country. Rolla ranks ninth in the nation in undergraduate engineering enrollment.

With a projected student enrollment of 7,000 by 1970, even more progress will be expected. New dormitories and classrooms, more scholarships, better equipment and increased faculty must fulfill student demand. If the challenge is met, Rolla's future growth will earn it even greater recognition through its outstanding graduates produced by an outstanding school.

To implement this development, the \$69 million challenge program has been launched in conjunction with the University's centennial in 1970. This need was foreseen almost two years ago by President Ellis, Chancellor Baker and other campus leaders.

As a state supported institution, returns will come mainly from state and federal funds but private funds will be solicited also. It is generally recognized that private and state universities are becoming more alike and state universities have need for private funds just as do private universities. These funds are needed to meet important demands for quality and service which cannot be met from state and federal funds because of legal restrictions or legislative policy.

The U.M.R. Centennial Challenge campaign looks to private giving for a relatively small percentage of the overall requirement, but upwards of \$4 million will be sought from this source and hopefully much more will be realized. The commitment of private funds will be almost entirely to the direct benefit of the student. For example, the top priority for use of private funds is for an urgently needed expansion of the Student Union. This \$3,500,000 building cannot be built with state money.

Funds acquired from private sources will speed success for the larger segments from state and federal sources. Already the University has received over

\$8,500,000 including money for: buildings, \$6,581,000; scholarships, \$53,179; fellowships, \$75,370; training grants, \$693,091; traineeships, \$54,774; research grants, \$365,202; equipment grants, \$456,470; miscellaneous departments gifts, \$39,760; supplemental cash, \$86,328; and reserve for the new Student Union, \$44,591. This leaves the balance required to meet the Centennial Challenge goal at \$60,911,494.

A 700-student dormitory will be erected on the campus with funds provided by Karl Hasselmann, Houston, Texas, Class of 1925. The gift was announced during the centennial kick-off luncheon. With four years to meet the centennial goal, U.M.R. has already achieved about 10 per cent of its \$69 million. It won't be an easy drive. Inspired by its academic excellence, the University of Missouri at Rolla will reach its Challenge Program goal in 1970.

L. R. Cochran
Brig. General U.S.A. (Ret.)
Executive Director
Centennial Program

Guest Columnist

The Cover Emblem

The Centennial Emblem on the cover is, very appropriately, in a general circular shape, for the circle is symbolic of completeness and continuity; the completion of a century of education and service and the smooth continuity with which transition from the first to the second century of the institution will take place.

It is appropriate that the MSM, the initials by which our institution was known for so many years, appear to radiate from the same point upon which

the UMR is centered, for this is indicative of the same tradition, the same service, the same effectiveness for which our institution has and will stand, whatever its name may be.

Symbolic of the influence that the modern University has in all technological fields and the strong force that it exerts on the solution of the varied problems, the initials, UMR are bold, centrally located and provide the only horizontally aligned lettering in the emblem.

The intertwining of the initial letters of the school name is very appropriate, indicating the closeness of relationships and the mutual support, loyalty and interests of the University, the State of Missouri and the city of Rolla. Appropriately, the M is the largest of the three initials, in recognition of the State as the creator and primary supporting influence of the University in Rolla. The M may also be considered to be a recognition of the senior school of our University at Rolla: the School of Mines and Metallurgy.

Centennial Challenge Program Launched

A \$69 million challenge program was launched on St. Patrick's Day at the University of Missouri at Rolla in conjunction with its 100th anniversary in 1970.

To fulfill the growing demands of an increasing student enrollment, the University will seek funds for development in student aid, faculty development, off-campus programs, research, building projects and equipment.

Stressing that the program is based on the studied needs of students and faculty in maintaining educational excellence, the fiscal campaign is geared to all possible sources of income. Although only a small percentage of the overall requirement is to be met from private giving, upwards of \$4,000,000 will be sought from this source. Top priority for use of private funds is for an urgently needed expansion of the Student Union which cannot be financed with state money.

Inaugurating the campaign, Dr. Elmer Ellis, president of the University of Missouri System, said, "The University of Missouri at Rolla has the po-

tential of doing for Missouri what MIT has done for Massachusetts and California Tech and the University of California have done for the State of California."

Dr. Ellis predicted that the achievement of the centennial goal will increase the production of undergraduate engineers and scientists and that growth will be experienced in graduate degrees and research which will bring about a brighter day for the State of Missouri and its industrial, economic and cultural stature.

He pointed out that the increase in federal aid to private universities has diverted resources which would have otherwise gone to public institutions, forcing them to seek private support. However, the efforts of the University to make its needs known to the General Assembly and the State Commission of Higher Education will not diminish, but will be intensified. It is expected that private gifts will help stimulate more adequate support from state and federal sources.

The drive will be allocated to four major areas: (1) Student aid, \$12,000,000; (2) Faculty development and off-campus programs \$624,700; (3) research, \$22,403,000; and (4) Building projects and equipment, \$34,333,460.

The program was conceived by Dr. Merl Baker, Chancellor and Dr. Elmer Ellis, President of the University of Missouri System. James J. Murphy, St. Louis, Missouri, a 1935 graduate of the school at Rolla, will serve in the dual roles of chairman of the Centennial Committee and Campaign Chairman. Enoch R. Needles of Howard, Needles, Tammen and Bergendoff, New York and Kansas City, will serve as honorary chairman of the Centennial Challenge Program. Mr. Needles is a civil engineering graduate of the school in the Class of 1914.

The Governor of Missouri, the Honorable Warren E. Hearnes, has stated his support of the program and has commended the University for its efforts to obtain outside financing to supplement state appropriations and federal aid.



The Centennial Challenge Program was officially launched at a luncheon March 17th, in Rolla at the Crystal Room of the Carney Manor Motel. Dignitaries at the speakers table, left to right, are: General L. R. Cochran, Executive Director of the program; Gene Sally, official representative of Warren E. Hearnes, Governor of the State of Missouri; Dr. Elmer Ellis, President of the University of Missouri System; Dr. Merl Baker, Chancellor of University of Missouri at Rolla; Dr. Curtis L. Wilson, Dean Emeritus, Missouri School of Mines and Metallurgy; Karl F. Hasselman '25, prominent alumnus and donor of 700-man dormitory for UMR; James J. Murphy '35, Chairman of the Centennial Committee and General Chairman of the Centennial Challenge Program.

Prize Winning Float



The first place trophy for the St. Pat's parade was awarded to the float of "The '59-ers," with the theme "Thar She Blows."

St. Pat's Parade Draws Record Crowd

On Saturday, March 19, the Miners once again paraded up Pine Street in honor of St. Patrick. St. Pat, with his entourage of guards, was escorted on the traditional manure spreader, and this antiquated vehicle led the parade.

The largest crowd ever to witness a St. Pat's parade was present to see a record number of floats.

This year the theme of the parade was "famous quotations." First place was won by the '59ers with a great blue whale following the theme of "Thar She Blows." Sigma Phi Epsilon's gigantic mules and covered wagon took second place honors under the banner "Go West Young Man." Third place was awarded to Beta Sigma Psi's jumping Beatles who warned that "The British Are Coming."

In addition to the three first place trophies, additional trophies were awarded for both originality and workmanship. Phi Kappa Theta won the

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workmanship award with its presentation of "Remember the Alamo." The Campus Club was awarded the originality prize for the float depicting "Necessity is the Mother of Invention."

In addition to the fifteen floats entered in the parade there were many other celebrities and attractions to entertain the spectators.

Sigma Pi won the honors of having the float which carried the Queen candidates. Other units of the parade were Shriner motorcades from Rolla and Springfield, and special cars carrying Chancellor Baker and family, Mayor Eugene Northern and the former St. Pat's who returned this year for a reunion retracing their paths of former years.

The Queen of Love and Beauty was announced at the St. Pat's Dance in the Rolla Armory.

Miss Sharon Sievers, of Cape Girardeau, was the selection from the twenty-six candidates. Miss Sievers represented the Tech Club. She is a senior at Southwest State College.

A special attraction in the parade was the Eight-Horse Hitch of Clydesdales of Anheuser-Busch Brewing Company.



The second place float in the St. Pat's Parade was awarded to Sigma Phi Epsilon's theme "Go West Young Man."



Queen Sharon Sievers and St. Pat's representative, TKE John Henry, presided on their throne during the ceremonies at the Armory.

Hasselmann Donor Of New Dormitory

A 700-student dormitory will be erected on the campus of UMR with funds provided by Karl Hasselmann '25, of Houston, Texas.

The gift was made contingent with the University's being able to resolve certain legal aspects.

The announcement of plans for the dormitory was made at the formal launching of the Centennial Program, March 17.

Mr. Hasselmann, who has retired as president of the Salt Dome Production Company, Houston, received his B.S. degree in mining geology and the professional degree of Engineer of Mines in 1945. He is a former president of the MSM Alumni Association.

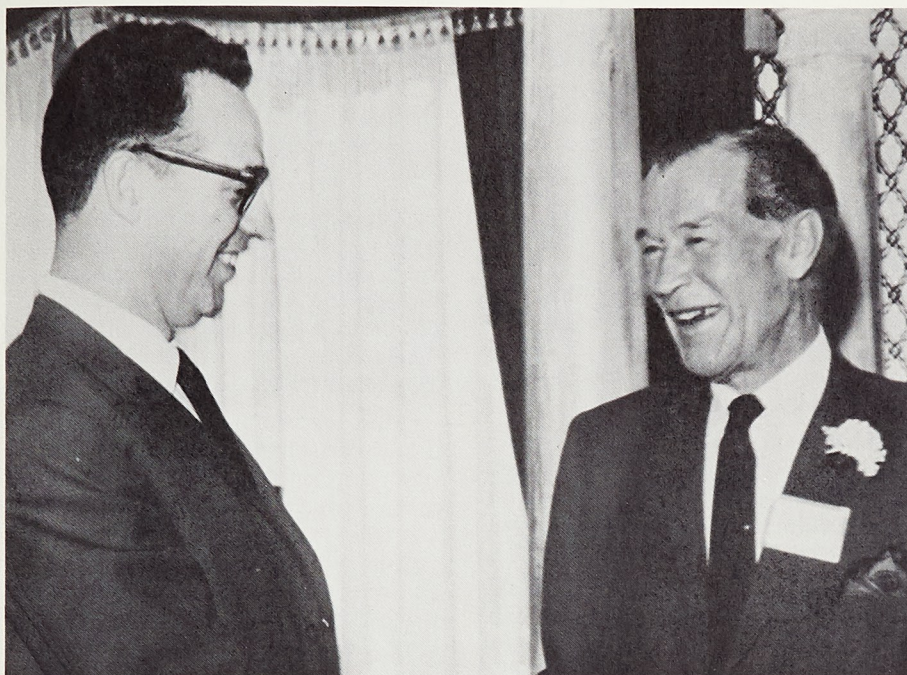
Though the Salt Dome Production Company went out of existence January 31, 1966, Mr. Hasselmann is still active in the oil business as a participant without operating properties.

He has an extensive "spread" near Raymondville, Texas, the "El Rancho Karlo," where he and his wife spend a great deal of their time.

The Hasselmanns left in April for an extensive tour of Europe which will take them behind the iron curtain. They expect to return in late summer.



Former St. Pats who attended the first annual banquet for old St. Pats at Carney Manor Crystal Room during the 1966 celebration. Front row, left to right: F. R. "Bob" White '46, Jack Lyons '41, Albert Needham '20, Edwin "Toots" Schuman '19. Back row, left to right: Don Spackler '49, Robert Tooke '62, Keith Bailly '64, John Henry '66. Present but not in picture, Bob Schuchardt '50 and Clyde Vandivort '65.



Chancellor Merl Baker, left, congratulates Karl Hasselmann '26, who is providing funds for a 700-student dormitory on the UMR campus.

Dr. Ellis Honored by Banquet at UMR

A banquet attended by the faculty, student body, alumni, friends, and representatives of industry, education and the board of curators was given in honor of Dr. and Mrs. Ellis at the Student Union on March 17.

Dr. Ellis who has been president of the University of Missouri since April 1, 1955, after serving the previous academic year as acting president, and the first president of the University of Missouri System, will retire in September upon reaching the mandatory retirement age.

The more than two hundred who gathered to honor Dr. and Mrs. Ellis were reminded by the speakers that the honored guest's leadership played a major role in helping UMR to become one of the nation's leading universities in engineering and science, with the establishment of the university system during the administration, the major capital improvements at Rolla during the past eleven years, the great increase in enrollment and the faculty which has grown from 128 to 286, and the many, many other advancements

on the campus under his presidency.

A gift from the faculty was a portrait of Dr. Ellis by George Carney. The alumni association presented him with a colored photo album recording the highlights of the evening. A bound volume of letters and other memorabilia from organizations were among the other gifts received by the Ellis'.

Dr. Curtis L. Wilson, Dean Emeritus of UMR, was the master of ceremonies for the occasion and principal speaker of the evening.

Chi Epsilon Honors Needles

Dr. Enoch R. Needles '14, senior partner of the firm, Howard, Needles, Tammen and Bergendoff, consulting engineers of Kansas City and New York, has been awarded a national honorary fraternity.

The honor has been conferred upon only 26 men in the 44-year history of the national fraternity. Dr. Needles was nominated at the nation-

al conclave held in February in Lincoln, Nebraska, and was voted by the Supreme Council to be honored. The award was presented in ceremonies at the United Engineering Center in New York.

Dr. Needles, who holds a B.S., C.E. and honorary doctor of engineering degrees from Rolla, was a chief participant in the design and construction of Pulaski Skyway, New Jersey Turnpike and other highways and bridges in some twenty different states. He served as director, vice president and president of the American Society of Civil Engineers. In 1946, he was named president of the American Institute of Consulting Engineers and later was elected president of the American Road Builders' Association and the engineers' Joint Council.

Two UMR professors took part in the program in New York. Paul Munger '58, associate professor of civil engineering and member of the Supreme Council of Chi Epsilon, participated in the elevation ceremonies, and Jerry Bayless '59, assistant professor of civil engineering, and the advisor of the UMR Chi Epsilon chapter, presented Needles with a recognition award from UMR. Dr. Needles is also a honor member of the UMR chapter.

St. Louis Globe Features UMR

UMR was featured in the April 24 issue of the St. Louis Globe-Democrat Sunday Magazine.

The cover was a color picture of Chancellor Merl Baker and Student Council President Al Ponnwitz standing in front of the Rolla Building. Four inside pages were devoted to the story and pictures of the school. This magazine section has been mailed to all contributors to the Alumni Fund. The Alumni Office has additional copies. If you would like to have a copy one may be secured by writing the Alumni Office at Rolla.

We wish to thank the Globe Democrat for the honor extended to the school and the fine work of Shirley Althoff in writing the story and Dick Weddle, their outstanding photographer.

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Women Graduates Have Proved Themselves "Special Breed"

By Winona Roberts

When the University of Missouri School of Mines and Metallurgy opened its doors in 1871, there was one girl among the 22 beginning students.

In the intervening 95 years, although there have always been women enrolled, the ratio hasn't increased much. This year, the female enrollment reached the 100 mark, setting an all-time record.

Several months ago, in preparation for the Centennial Campaign issue of the *Alumnus*, questionnaires were mailed to all known living women graduates of the School of Mines and the University of Missouri at Rolla.

Thirty-four of those queried replied. Their experiences covered a range of almost 60 years, the oldest alumnae having graduated in 1911, and the youngest in the summer of 1965. Twenty-two had math or science degrees; ten, engineering, and two had received degrees in English, offered here during the '20's and '30's.

In addition to factual information as to degree, family and professional achievement, alumnae were asked for comments on why they had chosen MSM for their college work, their reactions to being a female student on an almost all-male campus, and any special benefits gained from attending school here; how they felt they were received in the professional world, their opinions as to opportunities for women engineers and scientists, and suggestions for future development of U.M.R.

Most of those who answered didn't stop at the form questions. Their observations on life on the Rolla campus, and in their professions as they invaded traditionally male territory made interesting and provocative reading.

On one point they were unanimous: in their respect for their alma mater and the quality of the education they received here. Most commented with good humor on the difficulties of life on an almost all-male campus, such as lack of housing and facilities for women students. A few felt they were resented by the men students, but most reported a strong degree of acceptance

as "one of the boys" once they had proved themselves in the classroom. Incidentally, 14 of the group married "Miners," and six others married engineers or scientists who are not Rolla alumni.

In answer to a related question, none of the women reported lack of acceptance in their careers, although some remarked that they had to prove themselves capable.

Thirty-one of those who answered have been active at some time in their chosen field or related fields. Eighteen have children, and most of them had interrupted their careers while their children were young, some resuming work after the children were older.

One-third of the group has earned advanced degrees, six at U.M.R. and five elsewhere. Several others reported some graduate work or additional degrees in other fields. Fifteen have spent some time as classroom teachers, with several making teaching a career.

So many of the women have achieved distinction that it would be impossible to list them all. Eva Hirdler Greene, who received her B.S. in 1911, writes that she is "still carrying on, professionally, which brings much joy and inner satisfaction into my life." After a distinguished engineering career, Mrs. Greene entered a new field, which she calls "human engineering." Combining her engineering background with post graduate work specializing in psychology and aptitude measurements, Mrs. Green developed a system of "human engineering" with the view of guiding the individual to become more successfully responsive to his circumstance and experience. For three years she has been a faculty member of the Golden State University in California.

Many others have distinguished themselves through professional activities, and participation in community affairs. Of the more recent graduates, six were chosen last year for inclusion in the 1965 edition of *Outstanding Young Women of America*. They were Leila M. Thompson, '60; Barbara Ruth Patterson, B.S. '60, M.S., '65; Laura Lee Bosnak, '63;

Martha Carolyn Fowler, '61; Carol Elizabeth Kuhn, '62, and Georgina Overall, '63.

The reputation of MSM and the convenience in being close to their homes were most often listed as reasons for coming to Rolla, with cost and type of curricula also frequently mentioned. Seven of the post-war group came here as student wives with their husbands.

Most felt that they had gained something special from attending MSM. Most reported that the most important thing they received was an excellent education and the prestige of a degree from a school of high repute in engineering and science. Several listed that they had profited from the high academic standards and in learning to get along with men.

Most of the writers agreed with Jeanne Lloyd Arras, '44, the first woman to receive a degree in electrical engineering, who said:

"No one can explain what it is that MSM gives to its alumni which is very special, but none of us contests the claim that the school offers an education inferior to none, and that it somehow provokes a lasting feeling of loyalty that is unique."

The feminine "Miners" were almost unanimous in the feeling that opportunities are improving and are now excellent for women in science and engineering.

Eva Hirdler Greene, whose years of experience have encompassed a change of attitude from antagonism to acceptance, had this to say:

"At the time I graduated, there was a great deal of bias against employing women engineers. As a result, I had to create my own opportunities. Fortunately this situation has greatly improved and most women engineers, scientists and mathematicians are accepted today for their ability rather than being looked upon as oddities."

Most frequently mentioned in answer to the request for suggestions as to

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U.M.R.'s future development was that the school increase and upgrade humanities, many mentioning the ability to communicate as essential for today's scientists and engineers. However, such increased emphasis in the humanities was not desired at any diminishing of the quality of the technological education offered. "Good teaching" is of paramount importance at U.M.R., some emphasized, expressing a wish that its importance not be overlooked as the school expands into graduate and research fields. More concern for the woman student ran through many of the suggestions, including better dormitory facilities, women's sports activities and organizations, more women teachers and a women's advisor.

Several of the women drew on their own experiences to advise the coming generation of girls. Most agreed with Laura Lee Morey Bosnak who said, "I am grateful that I had an opportunity to study at MSM and urge any girl who enjoys studying science and engineering to pursue those fields, at U.M.R., if possible."

Only one or two disagreed. One said she would not repeat the experience because "I couldn't move without the entire school knowing about it." However, she felt that she had received a better education than she would have from another school.

Another commented that her years at MSM were "fun, mental fun." However, she deplored having the kind of mind which seeks such an education.

"It is not a normal female way of life, and since she must eventually fit in the female pattern, preparing for anything else leads only to frustration. It is a very difficult feat to be socially womanly and professionally male," she said.

One of the former coeds referred to the female "Miner" as a "special breed."

As we approach our centennial year, the Alumnus salutes that "special breed," with the feeling that, indeed, the woman graduates of this school have been very, very special. May they increase in numbers and influence!

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Electron Microscope

UMR has recently installed an electron microscope in the Department of Metallurgical Engineering.

Previous study of the structures of metals at UMR has been mostly restricted to the use of optical microscopes which are limited in their ability to reveal structural details found in metal specimens. With the installation of the new microscope, these specimens can be examined with much greater resolution of ultra fine structure. Also, due to the highly advanced design of the unit, internal imperfections which influence the behavior of metals may be studied.

The electron microscope laboratory was remodeled from a machine shop and storage area through a grant from the National Science Foundation. A vacuum evaporator which will be used in conjunction with the electron microscope was also purchased as the result of a grant from NSF.

The electron microscope laboratory is under the direction of Dr. H.P. Leighly, Jr., associate professor of metallurgical engineering. Dr. Leighly plans to use the instrument to study imperfections developed as the result of radiation damage and also as the result of plastic deformations.

St. Louis Science Fair Awards Two Scholarships to UMR

Two St. Louis area high school seniors have been awarded scholarships to UMR as awards for their winning entries in the Post Dispatch Greater St. Louis Science Fair.

Fletcher Glancy, of Hazelwood Senior High School, won a four-year scholarship with incidental fees for his display entitled, "Group Theory: Representational Systems and Applications."

Carl Scott Srury, of Mehlville Senior High School, won a two-year scholarship with incidental fees, for his exhibit, "Cavendish's Experiment for Determining Constant of Gravitation."

Talent Groups on TV

Two talent groups from UMR have been filmed for a statewide television program "Campus Talent '66," sponsored by the Southwestern Bell Telephone Company. Sixteen groups from 13 colleges across the state were chosen for this program.

The Kappa Alpha Singers, a vocal and instrumental folk group, and the Jaguars, instrumental jazz group were chosen by Corinthian Productions, Houston, Texas, the producers of the performance.

Student Union Director Honored

William Kratzer, Jr., director of the Student Union at UMR, has been elected regional representative for the Association of College Unions International.

Kratzer will represent a four-state region comprised of Missouri, Kansas, Nebraska and Oklahoma on the executive board and will coordinate the regional conference to be held in December at Southwest Missouri State College in Springfield.

Kratzer became director of the Student Union here in 1959. Previously, he directed the Student Union on the Columbia campus of the University.

A New Jackling Field

The new football field at UMR will be named Jackling Field to continue the recognition of Daniel Cowan Jackling for his generosity in giving the University the land now known as Jackling field which will be used for campus buildings.

The new football field will be located adjacent to the site of the new multiple purpose building, auditorium-field house, west of Bishop Street and south of Tenth Street.

Architects plans for the auditorium-field house have been approved by the Board of Curators.

A Day on the Campus-- Thirty Years After Graduation

By Samuel A. Bermi '34

Since the preceding Tuesday this trip was on my mind. I couldn't let myself take this idea too seriously because any one of a dozen things could void this trek; any one of a hundred whims could drive this zany desire out of my head. So, I just let it lie fallow. Then I broached the idea gingerly to my wife and daughter. And, what do you know! Not only did they give their consent, but also were they extremely enthusiastic, and completely sympathetic with this desire.

Thus, I started at nine A.M. on a partially brilliant day, and headed west toward the Alma Mater which had bestowed on me a degree more than 31 years ago. As I ascended the foothills of the Ozarks, late Autumn paraded her exquisite finery every mile of the way: reds and flames, golds and browns of every shade and description, punctuated here and there with the greens of the pine and the cedar. What a paradise of color is Autumn in the Ozarks!

It was easy to muse to the steady purring of my small but dependable automobile. I knew that there were but a few "profs" left from my era, and that there were not going to be many, if any, "old grads." This was "Engineers Day," and it was designed to parade the school, its faculty, and its accomplishments, to prospective students and to their parents. Now, the student body numbered 4300, and the school still had room and equipment for many more bright and alert minds. In my day there were less than 500, and we boasted of two women scholars. This year there are more than 100 well-thought of females majoring in the sciences.

I projected a temporary program for myself. I would arrive at 11 A.M. and would leave at 3 P.M. The four hours would be divided between talking to the profs and to people I remembered; to browsing around the campus and the familiar haunts of my youth; to walking slowly up and down the seven or eight blocks of the business district; to chatting with others whenever I had the chance.

In the registration room I got a thrill just putting down "class of '34," and marking "grad" under the box "other." (You were supposed to check whether you were a "student," "parent," or "other"). This registration automatically gave me status, because the name card the girl typed for me was white, and signified "grad," in contrast to "yellow" for student, and "pink" for parents.

In a large room lined with tables and chairs, there were dozens of youngsters asking hundreds of questions of profs on the subjects closest to their hearts. I made my way to the Mining and Petroleum Engineering table, about which no youngsters gathered, but which was graced by the presence of two distinguished gentlemen.

I introduced myself, and with that simple action initiated four hours of the most delightful, nostalgic, and rewarding experience that I have ever had.

They were extremely charming, and showed delight (in words and manner) that I had made the trip. They asked me questions of the past, and I answered with words that painted pictures that I had not looked at, for lo, these many years. I could see events so clearly. So, conversationally, we traversed these 31 years forward and backward and forward again. The head of the Mining Department then joined us, and volunteered to give me a personal guided tour of his domain, and I accepted with pleasure.

He showed me the modern wonders which had been added with the passing of time, and I could only shake my head in amazement. The mind of men had indeed progressed to the point of incredulity, even to an "old grad" with a B.S. degree in Mining and Metallurgy.

I met an associate mining professor from England, who had majored in mining for exactly the reason that I had: to travel, and to have the privilege of seeing our strange, awesome, and exotic world, at close hand. He fulfilled

his ambitions. He worked in Australia, India, South Africa, South America, in the Sahara, and in Germany, before coming here to teach.

Now I leisurely paced the familiar walks, and pondered the information I had received. My minerology professor had died suddenly from a heart attack last year. My life-long friend, the registrar, had retired, and had suffered a bad fall which hampered his walking considerably. My Lithology professor had had a coronary, and was retired, but was still living nearby.

I shunned the new buildings of which the University was justly proud, and headed straight toward wonderful, marvelous Norwood Hall. It still had those incredible wooden floors, still highly polished. They were a welcome contrast to the newer tile and marble halls. The lecture rooms appeared to be completely the same, and I went straight to my former seats. I paused in awe and wonder by the fabulously filled rock and mineral sample cases, gathered from every locale of this crusty Earth of ours, so neatly identified, catalogued, and explained.

There was an open door at the end of the corridor on the second floor, and the department head was busily working and smoking behind a large desk. He looked up and cheerily invited me in even though I was still a long ten paces from the door. We introduced ourselves to each other, and needless to say, the head of the geology department and the old grad, enjoyed themselves immensely talking, and reminiscing. Yes, he knew all of my former instructors, but no, they were not around any more, not one.

Then came my planned walk down the business section of town. Scott's was still there, (second and third generation, no doubt) but the others were all new. I sat down at two different food counters for lunch, but the help were of the newer breed, and they were in no hurry to give service. A half hour later I seated myself at the counter of the Hotel Coffee Shop. Here, the elderly, neatly uniformed waitress,

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came at once with a glass of water, and smiling, took my order. This simple courtesy once again salved my soul, and made me glow and feel very good.

I made my way to the Sigma Nu house, intending to say hello to the son of a friend of ours, but he wasn't there. I had just missed him by a few minutes. However, the seven or eight fraternity brothers on the front porch, made me feel very welcome, and I enjoyed myself very much. They told me of life on the campus now, and they listened attentively to my stories of 31 years ago. Do you want to know something? There really wasn't much difference. The same wild ideas occur now as did then, the same hard work exists now as existed then, and the same desires to learn and to get ahead are prevalent in all eras. The one notable difference was money: there just wasn't any in 1934. I waved my hand in a cheerful farewell from the bottom of the steps, and the Sigma Nus just as happy, said "good-bye" in unison from the porch. This was a very enjoyable interlude.

I glanced at my watch and noted (without dismay) that in another hour my trip into Nostalgic Past, would come to an end.

Unfortunately, the retired geology professor was not at home. I left my card with a note and went away feeling disappointment, and wondering if I would ever see him alive again.

I was in luck with my other call. The retired registrar and his wife were a joy to visit. Other than his infirmity in walking, he looked remarkably well. We chattered like magpies. Ruth, Noel and myself, kept the air filled with events that one or another remembered. Names, dates, and incidents popped up as though a memory machine had broken open. This contemporary had passed on, an out-house was stolen and burned, the exciting days of the St. Pat celebrations, the bonfire gatherings, the heroic deaths of so many in World War II, and so much more.

We were all reluctant to end such an idyllic get-together, but we finally said good-bye. To their exhortations to come again and to bring my family with me, I say "yes." I left their apart-

ment filled with a mixture of gladness and sadness.

In addition to the satisfying feeling I took home with me, I found the answer to the age-old question that haunts everyone. "Where, or where, are the wonderful days of yester-year?" I found them where I had put them, although I didn't know it at the time. They are to be found in the accumulated memories I had placed in the back of my head. Every single one of them are there: the good and the bad, the happy and the sad, the heroic and the ignoble, the sweet and the poignant bittersweet. They are all standing there, like the toys of Little Boy Blue, "since he kissed them and put them there."

Munger Honored as "Advisor of the Year"

Professor Paul Munger '58, associate professor of civil engineering, UMR, has been recognized as "Faculty Advisor of the Year" at a dinner honoring faculty advisors to student organizations, held at the Student Union.

Munger was nominated by Beta Sigma Psi, a social fraternity, which he has served as advisor for the past three years.

In the nominating article, Munger was lauded for helping the organization with its scholarship and financial problems, and for his interest in the individual student. The organization has increased in size and scholastically, it has risen from near the bottom to the top spot in rating for the past three semesters. He was also responsible for the ground-work in laying plans for a new house for the fraternity.

Because of his outstanding work, Beta Sigma Psi awarded Professor Munger a life-time membership, an honor seldom bestowed by the group.

Munger has also been faculty sponsor of Chi Epsilon, national civil engineering honor fraternity and is on that organization's national board. He was recently named "Young Engineer of the Year" by the Rolla Chapter of MSPE, the organization which he is now serving as president; and he is a 1966

recipient of a National Science Foundation Fellowship for graduate study toward a Ph.D. degree. He will enroll at the University of Arkansas this fall.

Space Symposium Features Yeager and Drummond

Colonel Charles "Chuck" Yeager, the first man to fly faster than the speed of sound, was the featured speaker at a student space symposium sponsored by the University of Missouri Space Sciences Research Center in cooperation with the UMR Graduate Center for Materials Research and the National Aeronautics and Space Administration.

This symposium brought more than 1,000 high school students to the UMR campus from a seven-state area.

Accompanying Col. Yeager were Floyd Drummond '52, J-2 Rocket Engine Project Manager of the Marshall Space Flight Center, Huntsville, Alabama, and Paul Gardner, NASA Educational Programs Division career counselor.

Col. Yeager spoke to the group of young potential scientists and engineers on the "Development of the X-Series Experimental Aircraft," an advanced spacemobile demonstration lecture with a number of new approaches to an understanding of the space effort.

Floyd Drummond '52, who received his degree at Rolla in Electrical Engineering, talked to the group on "Launch Vehicle Engineering Development." Mr. Drummond joined the research and development team at Marshall Space Flight Center in 1959, when he accepted a position as project engineer with the Army Ballistic Missile Agency at Redstone Arsenal. He was an instructor at Rolla from September 1954 to January 1956, when he joined North American Aviation, Inc.

Paul Gardner held a career guidance and planning discussion for the benefit of high school students in the Student Union Ballroom.

The famous Bonestell paintings on the exploration of outer space were on exhibit during the symposium.

Federal Grant for Addition To Mechanical Building

The U.S. Office of Education has approved a grant of \$213,975 for construction of a graduate addition to the Mechanical Engineering Building.

The Missouri State Assembly has previously appropriated \$900,000 toward this construction. The original request to the Federal Government was for \$225,000. The architects for this building are Sverdrup & Parcel Associates, St. Louis, Missouri.

Co-op Students Tops in Grades

Co-op students topped all group grades at UMR for the fall semester with a 2.69 grade point average. Of the classes, seniors averaged 2.65; juniors, 2.43; sophomores, 2.32; and freshmen, 2.13. Grade point average for the entire undergraduates was 2.32.

The all-independent average of 2.38, topped the fraternity average, 2.28. The dormitories averaged 2.38.

Of all the residence halls, House 2 in McNerney Hall, averaged the highest grade point with a 2.62.

Beta Sigma Psi and Kappa Sigma topped all fraternities with a 2.46 grade point average. Pi Kappa Alpha was second with 2.44 and Acacia third with 2.41.

The Shamrock Club let the eating clubs with a 2.51 average. The Campus Club was second with 2.39 and Prospectors' Club third with 2.38.

Southern California Section

The Southern California Section met on Saturday night, March 19, at the Redwood House, Los Angeles to celebrate the birthday of St. Patrick. The only business of the evening was the re-naming of the alumni group. It was changed to "Southern California Section-Barney Nuell Chapter."

The food, conviviality and companions were all first rate. The following is a list of those "loyal sons" who attended the meeting:

Mr. and Mrs. Bruce Dillon '56; Mr. and Mrs. Joe Geers '52; W. R. Groschan '26; Mr. and Mrs. Jim Gostin

'44; Mrs. Eva H. Greene '11; C.E. "Ted" Graves '56; Mr. and Mrs. Scoville Hollister '13; Mr. and Mrs. Tom Harsell '39; Mr. and Mrs. Dennis Beech '62; Mr. and Mrs. Don Huseman '43; Mr. and Mrs. Nate Jaffe '41; Mr. and Mrs. Warren Johnson '50; Mr. and Mrs. Ed. Hayser '16; Dr. Maurice Suhre, Jr. '56; Mr. and Mrs. Joe Quinn '56; Mr. and Mrs. Jim Terrell '32; Mr. and Mrs. Tom Weir '22; and Mr. and Mrs. John Wilms '43.

The Section welcomes all Miners and their ladies to their meetings, the kind you will all enjoy. Please advise Don Huseman '43, Section Chairman, St. Louis Bearing Company, 333 East "B" Street, Wilmington, that you are in the area or recently moved into the area.

New York Alumni Gather

During the annual meeting of the American Institute of Mining, Metallurgical and Petroleum Engineers in New York, N.Y., the Rolla alumni gathered at the Brass Rail Restaurant on 7th Avenue for an alumni dinner.

There were fifty alumni, faculty and guests present. Larry A. Spanier '50, was the master of ceremonies and the group enjoyed talks by Chancellor Baker and Dr. Curtis L. Wilson, Dean Emeritus of the school.

Those in attendance were: J. Craig Ellis '38; Mr. and Mrs. Larry Spanier '50; Mr. and Mrs. T.J. Stewart '34; S. I. Megeff '50; Wm. McEvilly '51; Fred M. Springer '49; L.K. Wheelock '52; Mr. and Mrs. John F. Winter '51; Irving Klaus '50; Gerald Stevenson '59; Colin Rose '40; Mr. and Mrs. R. Edgar '33; Ed. Skulka '50; Bill McGovern '60; Herb Kalish '43; Mr. and Mrs. H.W. Flood '43; R. Fahrni '65; J.W. Rabetto '35; T. Demopoulos '58; Mr. and Mrs. P.A. Dennie '40; Ed Braun '49; Frank Tao '64; Charles H. Lambur '33; Gordon P.K. Chu '64; James Murphy '56; Mr. and Mrs. James Jacobs '39; Blake Caldwell '50; Spence Hansen '62.

Faculty members attending were: Dr. Merl Baker; Dean and Mrs. Curtis L. Wilson; Ike Edwards; Dr. Paul Proctor; Dr. Ernest Spokes; Dr. H.R. Hanley; Dr. Tom O'Keefe; Professor Bob Wolf; Dr. and Mrs. James Scott; Professor Ray Morgan; Dr. Anton Brasunas and Dr. Harry Weart.

National Capital Section

The National Capital Section of the Alumni Association had a fine get-together to celebrate St. Patrick's Day on March 18.

The following alumni in the area were present: Charles Jennings '30; Charles Huhre '30; Gordon Raymer '49; Melvin Hudson '58; James Cooper '51; Donald Maday '52; Fred Dickey '64; Wilfred Rodman '37; John Pollak '32; Carl Thye '57; S. Thomas Dunn '62; Robert Simmons '36; Burr Turner '38; Oliver Jones '49; Robert Fisher '36; Tom Hughes '42; Joseph Kolasch '55; and J.B. Toomey '49.

The National Capital Section has regular alumni luncheons on the first Tuesday of each month at the Black Saddle in Washington, D.C., 709 18th Street, N.W. John B. Toomey, 2316 Jefferson Davis Highway, Alexandria, Virginia is the Section's President. His phone is KIng 8-8300.

NATIONAL CAPITAL SECTION'S MONTHLY LUNCHEON

AT THE

BLACK SADDLE
709 18TH ST. N.W.

FIRST TUESDAY OF
EACH MONTH

CALL S. B. TOOMEY
KLUG 8-8300

For the second consecutive year, a Missouri Miner has been chosen as the recipient of the MIAA Basketball Sportsmanship Award.

This year the recipient was the 19-year-old sophomore Rich Cairns.

Rich's home town is Sparta, Illinois, where he was an outstanding member of the high school basketball team and was selected on the Southern Illinois All-Star team. The scrappy guard played in all nineteen games this year and totaled 248 points on one hundred field goals and forty-eight free throws.

Cairns, an excellent shot with a good range, was voted most deserving of the

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award by the coaches and officials of the MIAA conference. Over thirty men from the six conference schools received votes as outstanding sportsman in some game which they competed during the past season.

ENGINEERS WANTED

For information concerning the positions listed below write or contact Assistant Dean Leon Hershkowitz, UMR, Rolla, Missouri.

M.E.; E.E.; CHEM. – Atomic Energy, Electrical Transmission and Distribution; Construction Machinery; Engine-Material Handling; Farm Equipment; General Products; Research; Manufacturing and International Divisions of large machinery manufacturing company. Refer File No. 290.

MET. – Plant Department Supervisor; Chemist; 4 to 10 years experience. Company located in Northern Idaho. Refer File No. 291.

CERAMIC – Manufacturing Manager with successful administrative experience in the production of ceramic products. Los Angeles area. Around 40 years old, good salary. Refer File No. 292.

CERAMIC – M.S. or Ph.D. Interest in and mastery of the physical chemistry of oxide systems. Applied R & D concerning use of refractories in steel-making processes. Refer File No. 293.

E.E.; C.E.; CH.E.; Sales, product manager, product assistants, air conditioning, project engineer, civil engineer, mining engineer. Large gypsum company. Refer File No. 294.

ENGINEERS – All fields. Large rubber manufacturing company. In Ohio. Refer File No. 295.

ENGINEERS – SCIENTISTS – All Fields. Experienced and non-experienced. Excellent positions, and salaries throughout the U.S. Refer File No. 296.

CH.E. – B.S.; M.S.; and Ph.D. Laboratory of technical and research department of large oil company in Texas. Scope of work broad. All types of process and product development. Refer File No. 297.

M.E. – Plant engineering staff minerals and chemical corporation. Two or

three years experience in mechanical inspection and corrosion control activities. Refer File No. 298.

M.E. – Boiler Sales Engineering Department of machine company. Works with other engineers in the analysis of purchasing specs., selection of accessory equipment and preparation of proposals. Refer File No. 299.

ENGINEERS – M.E.; E.E.; MET. E.; Design development automated equipment, digital logic circuitry, solid state electronic components. Located in Illinois. Refer File No. 1.

ENGINEERS – M.E. chief engineer. 35-45 years. 10 or more years experience. Manufacturer producing wide variety of ferrous metal components. Chief metallurgical engineer and quality control manager need by same manufacturer. Refer File No. 2.

ENGINEERS – Consulting firm. Design engineers in heavy industrial products particularly for pulp and paper industry. Rapidly expanding, needs engineers in all disciplines. Southeast U.S. Refer File No. 3.

PAINT TECHNOLOGY GRADS: Leading manufacturers and distributor of titanium oxide pigments in Canada. Based in Canada, Refer File No. 4.

ENGINEERS – Mechanical design, stress analysts, materials application, quality control, instrumentation and sub-contract administrators. Experienced. Good salaries. Large electrical company. Refer File No. 5.

ENGINEERS – NASA has vacancies to Houston, Cape Kennedy and Bethesda, L.I. New York. Flight systems, systems test, mechanics, mission operations; Data systems; control and guidance; reliability, etc. Refer File No. 6.

CER. E. M.E. – Missouri refractories plant. Manage laboratory and production quality control, design and layout work in machine shop and maintenance department. Refer File No. 9.

NUCLEAR PHYSICIST – Ph.D. or equivalent experience. Armed Forces Radiology Research Institute. East coast. Refer File No. 8.

C.E.; M.E.; CH.E.; CHEM.; MATH. – Large oil company. Experienced and non-experienced. Most openings in semi-rural New Jersey, some Texas gulf coast. Refer File No. 9.

ENGINEERS – All disciplines. B.S.; M.S.; Ph. D. Large oil company. Recent grads and experienced. In Pennsylvania. Refer File No. 10.

ENGINEERS – Product & Plant Design. Plant Engineering. R & D. Quality and Production Control. Large tractor company. Refer File No. 11.

MARRIAGES

Pietsch - Jackson

Ervin Pietsch '65 and Miss Linda L. Jackson, of Decatur, Illinois, were married March 5, 1966 in the First Lutheran Church in Decatur. The groom is an engineer with the Mueller Company, Decatur, and the bride is a graduate of Southwest Missouri State College, Springfield.

Hoffmeister - Pierce

Jack Hoffmeister '62, and Miss Carol A. Pierce, of Los Angeles, California, were married December 18, 1965. Jack is assistant highway engineer, California Division of Highways. Their new address is 678 South First Ave., Apt. 5, Covina, California.

Stokely - Wiegman

W.S. Stokely '62, and Miss Myrna Wiegman, of Chicago, Illinois, were married April 2, 1966. Mrs. Stokely teaches at the kindergarten level in the Chicago suburbs. Mr. Stokely is a designer with the Illinois Central Railroad in Chicago. The couple reside at 707 North Pine, Chicago, Illinois.

BIRTHS

Lt. and Mrs. Clarence Philip Wagner '64, announce the birth of a daughter, February 27, 1966. His daughter and wife, the former Mary Nina Pfeffer, a registered nurse are with him at his assignment in Hanau, Germany. Their address is 568 Engr. Co., APO, New York, New York 09165.

Mr. and Mrs. Don L. Willyard '62, have a new son, Derek Shawn, born March 12, 1966. This is their second son. Jeffery will be three years old in April. Don is an engineer in the inte-

grated circuits department, Texas Instruments, Inc., Dallas, Texas. Their address is 1324 Cottonwood Drive, Richardson, Texas.

Mr. and Mrs. George Knight '51, adopted George Leister Knight, on August 24, 1965. George Leister was born June 16, 1965. The father is assistant production manager, J.C. Steele and Sons, Statesville, North Carolina. The Knights reside at 1303 Forest Park Drive, Statesville.

Mr. and Mrs. Sylvester W. Braswell '65, 16 Edgewood Road, Manor Haven, Port Washington, New York, began their family upon the arrival of Anne Margaret, December 23, 1965. Sylvester is with Grunmann Aircraft Company, Long Island, New York.

Mr. and Mrs. William Baldwin '51, adopted Page Marshall Baldwin, March 11, 1966. He was born February 10, 1966. The proud new parents live in Tallahassee, Florida, 240 Carlton Court. Bill is with Big Bend Engineering Company. "Bev" has her work cut out for her tending to the demands of Page Marshall.

Mr. and Mrs. Charles E. Price '64, are parents of a girl born February 22, 1966. Charles is a results engineer at the Central Illinois Public Service Company, Grand Tower, Illinois. Their mailing address is Box 177.

Mr. and Mrs. Richard Rouse '62, have a new son, John Douglas, born March 12, 1966. This is their third child. Richard is with Truax-Traer Coal Company, Coffeen, Illinois, and is underground foreman. They live in Hillsboro with a mailing address Box 435.

Mr. and Mrs. Everett H. Vannoy '64, are proud of Melissa Ann who arrived February 11, 1966. The father received a promotion at Delco Radio, Kokomo, Indiana. He is now in charge of electrical design of all auto radios built by Delco. His residence address is Rte. 5, Box 405 Kokomo.

Mr. and Mrs. William J. Lodholz '60, have advised the alumni office of the second son, Ronald William, who arrived at their home December 18, 1965. William is in data processing at ARO, Inc. Arnold AFS, Tennessee. They live at 604 Cumberland in Tullahoma.

Mr. and Mrs. John W. Padan '55, announce the arrival of their first child, Lisa Marie, born December 29, 1965. John is a mining engineer with the U.S. Bureau of Mines. The Padans now reside at 5028 57th Ave., Apt 101 Baldensburg, Maryland.

Dr. and Mrs. Robert G. Fuller '57, 4722 Rouge Court, Alexandria, Va., welcomed Amy Elizabeth, November 14, 1965, their first child. Bob is a NRC-NAS Post-doctoral Research Associate at the U.S. Naval Research Laboratory, Washington, D.C.

Mr. and Mrs. Joe Dryden '51, have a daughter, Amy Elizabeth, born November 11, 1965. The father is chief engineer, Bixby-Zimmer Engineering Company, Galesburg, Illinois. Their residence is at 1015 North Cedar, Galesburg, Illinois.

Dr. Gary K. Patterson '60 and Barbara Lay Patterson '61, have a son, Sean Kent, born August 17, 1965. Gary is an assistant professor in chemical engineering at UMR, and Barbara is a housewife. Barbara received her B.S. degree in Chemistry and M.S. in 1965. They reside at 205 South Olive, Rolla.

Mr. and Mrs. Richard Murry '51, began their family with Douglas Richard, who arrived June 10, 1965. They live at 12538 Larkwood Drive, St. Louis, Missouri. Richard is a design engineer at Moloney Electric Co.

Mr. and Mrs. Gerald L. Stevenson '59, are the proud parents of Lynne Anne, born November 25, 1965. They are living in Stamford, Connecticut, 1011 Stillwater Road. Gerald is engineering project manager, International Minerals and Chemical Corp.

Mr. and Mrs. Richard A. Martin '64, are parents of a son, Scott Andrew, born March 19, 1966, at the Valley Presbyterian Hospital, Van Nuys, California. They live at 14961 Dickens, Apt. 7, Sherman Oaks, California.

Mr. and Mrs. T.A. Corcoran, Jr. '55, welcomed T.A. Corcoran III, born March 26, 1966, in Farmington, New Mexico. Currently the father is engaged in an operation that is boring an irrigation tunnel to carry water from Lake Navajo to the Navajo Indian Reservation to Ship Rock, New Mexico. He is a mining engineer with experience in

molybdenum mining in Climax, Colorado, gold mining in Bonanza, Nicaragua and copper mining in White Pine, Michigan. Their address is 2612 East 23rd Street.

DEATHS

Robert B. Fisher, Jr. '53

Captain Robert B. Fisher, Jr. '53, passed away unexpectedly, February 26, 1966, from complications following the Asian flu. He is survived by his widow, Rosemary, Box 213, Linden, California.

Ronald M. White '26

Ronald M. White '26 died December 14, 1965, after suffering a heart attack. He was residing at 1005 Neri, Vandalia, Ohio. He was Director of Aviation, Dayton Municipal Airport, Dayton, Ohio.

J. Emmett Mitchell '23

J. Emmett Mitchell '23, died December 18, 1965, in the Veterans Administration Hospital, St. Louis, Mo.

Robert L. Robb '65

Robert Lee Robb '65, died November 18, 1965.

Felix Z. Meeks '23

Felix Zollicoffer Meeks '23. The alumni office has been advised of his death.

David L. Forrester '11

David Lawton Forrester '11, died March 29, 1965 in Stuart, Florida. His early mining days were spent in Arizona. Later he went to the Philippine Islands, coming out just before the Japanese invasion. At the outbreak of World War II, he went to Washington, D.C., where he remained until his retirement in 1957. He was a pioneer in the flotation process and developed one of the first successful mattless flotation cells known as the "Forrester Machine" and widely used throughout the world. He has many other firsts to his credit. While in school he was very active in all activities. He was quarterback on the football team for two years and was St. Pat at the third St. Pat's celebration at the School of Mines. He was a member of the Kappa Sigma fraternity. He will probably be remembered best for his dancing feet as "Mr. Bones" in the minstrel of that day. He is survived by his widow, Louis;

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a son, Cmdr David L. Forrester, Jr., of Rota, Spain; a daughter, Mrs. Harry Ashby, of Vermillion, Ohio and six grand children.

William T. Griffith '06

William Thomas Griffith '06, age 81 died March 11, 1966, of an apparent heart attack in Turlock, California. He was a native of St. Louis, Missouri. He worked for a number of mining companies and as a draftsman at St. Louis City Hall and Salt Lake City, Utah City Hall before starting a homestead north of Custer, Montana, in 1913. When his older children were ready for high school, the Griffiths moved to Edgar, Montana, in 1920, where Mr. Griffith became superintendent of schools. He was there two years, then moved to Valier and was superintendent of schools until 1927, and then became superintendent of schools of the Stockett-Sand Coulee school system until his retirement in 1948. He is survived by two daughters, Mrs. Harold Duffy, of Turlock, California, and Mrs. Edward Hermes, Paradise, Montana; and three sons, Dr. Frank, a research chemist for New Jersey Zinc Co., Palmerton, Pa.; Robert, of Columbus, actuary for the Nationwide Insurance Co., and Richard, of Libby, Montana, a forester for the St. Regis Lumber Co.; two half-brothers and a half-sister.

Edwin R. Morris '12

Edwin R. Morris '12, died March 14, 1966, at his home in Oelwein, Iowa, of a cerebral hemorrhage. Mr. Morris had been chief chemist for the Chicago Great Western Railroad for 37 years until his retirement a number of years ago. He is survived by his widow, Rose, 41 Third Street, N.W., Oelwein; two sons, Dr. Robert L. at the State University of Iowa, Iowa City, and William H., a professor at the State Teachers College, Oshkosh, Wisconsin.

James N. Foster '25

James N. Foster '25, died March 12, 1966, at his home in Pompano Beach, Florida. Mr. Foster, up to his retirement in October 1963, served as Manager of Plant Services Departments of Mallinckrodt Chemical Works.

H. O. Hendrickson '34

Dr. Hardin Orland Hendrickson '34, age 54, died April 18, 1966. Dr. Hendrickson received his B.S. degree at Rolla in Civil Engineering. In 1943, he received his M.D. degree from the University of Louisville. He had practiced medicine in Poplar Bluff, Missouri, with his father, since 1945. They operated the Poplar Bluff Hospital for many years. He served as an M.D. in the U.S. Navy during World War II.

John F. Hosterman '22

John F. Hosterman '22. The alumni office has been advised of his death. He has been residing in Huntsville, Texas, and we had as his address there R.R., Box 28A.

Raymond A. Wilks '48

Rayburn A. Wilks '48, died February 1, 1966 from a heart attack. He was principal staff engineer, Standard Oil of Indiana, Whiting, Indiana, and resided at 6603 Illinois Avenue, Hammond, Indiana.

Alumni Personals

1924

J.E. Jett, 408 Sue, Houston, Texas, has retired as geophysicist with the Pure Oil Company because of his health.

1927

Dr. Paul Weber has been appointed Vice President for Planning at the Georgia Institute of Technology for the University System of Georgia. Dr. Weber has been at Georgia Tech since receiving his M.S. degree at MS.

1931

W.H. Wamsley left the U.S. Borax Company, in 1965, to assume the position of mine superintendent for Mr. Goldsworthy Mining PTY Ltd. at their new iron mine, open pit, in Western Australia. His address is Box 84, Port Hedland, Western Australia.

Charles E. Ross, on March 17, 1966, completed 35 consecutive years with the Corps of Engineers. On April 1, 1966, he completed 30 consecutive years in the Hydraulics Branch. Mrs. Ross is employed in same office as Personnel Staffing Specialist and she has completed 24 years with the Corps. At present Mr. Ross, is assistant chief,

hydraulics Branch, Huntington District, P.O. Box 2127, Huntington, West Virginia.

1932

W.A. Gallemore, 324 West Main Street, Lebanon, Illinois, was recently promoted to Chief, Housing Management, DCS/Civil Engineering, Hq. Military Airlift Command, Scott AFB, Illinois.

1933

T.O. Seiberling, real estate engineer, St. Joseph Lead Company, Bonne Terre, Missouri, also owns and operates Seiberling Engineering and Surveying Company, Box 347, Bonne Terre, Mo.

Ellen Woodman Doll has a change in position at the Woodrow Wilson Junior High School, Charleston, West Virginia. She has been a mathematics teacher. Effective February 1st, she is a full-time guidance counselor. Her address is 814 Beach Ave., Charleston.

Charles H. Lambur has continued his devotion to the sport of Judo. He has the following responsibilities: USA Olympic Committee; USA National Maccabiah Games Judo Chairman; Metropolitan AAU Chairman; NYAC Judo Chairman and Club President. His activities were highlighted when he coached and managed the 4-man Judo team that represented the USA in the World Maccabiah Games held in Tel Aviv in August 1965. The team won three out of the possible four gold medals. He was also tournament director and organizer of the Judo competition for the World Maccabiah Games. He was awarded a gold medal and received other honors for his services in the above Games. He was also organizer and Tournament Director for the annual North-South Judo Championship and the Metropolitan AAU Judo Championship. In addition to all of this he is president of Schneider of Paris, Inc. His company purchased a new acreage at Cliffwood, New Jersey, erected a new factory and will occupy it in July. Their previous facilities were in Newark. He has spent several weeks in Europe coordinating activities with their associated companies in France, London and Austria. The business and administrative offices are maintained at 303 Fifth Avenue, New York, N.Y. Charlie was a Mercier when in school, which changed to Theta Kappa Phi and is now Phi Kappa Theta.

1934

Sam A. Bermi, a mining engineer, called at the alumni office and presented a dissertation which you will find elsewhere in this issue. Very good, we thought. Sam is no longer a mining engineer and hasn't been for many years. He is in the insurance business and is now general agent for the Midland National Life Insurance Company. His address is 845 Warder, University City, Mo.

1937

Grant W. Schaumburg advises that his daughter Ann graduated from Wellesley College, in 1964, and was married August 29, 1964 to Conrad A. Plimpton, a Harvard graduate. Grant Jr. is a junior at Harvard College. Grant Sr. is works industrial engineer, U.S. Steel Corp., Geneva Works, Provo, Utah. The Schaumburgs live at 2180 North 220 East, Provo.

Arthur L. McClanahan, Mrs. McClanahan and Arthur, Jr. were alumni office visitors in April. Arthur, Jr. is a sophomore in high school and is planning for college training in chemistry. We are looking forward to seeing him again in a couple of years. Arthur, Sr. has been back for several years and needless to say there are many changes. He is an engineer with Gruman Aircraft Engineering Corporation, Bethpage, L.I., New York. His address is 118 Brixton Road, Garden City, New York.

1940

Herbert O. Kimmel, 1825 McIntyre, Regina, Sask., Canada, visited the campus in April. Herb and family have been visiting in Tucson, Arizona, and came by Rolla on their route home. He is senior geophysicist with the Imperial Oil Company.

1941

George R. Couch has been named assistant to the general manager of the Western Mining Division of Kennecott Copper Corporation. Mr. Couch has been a project engineer, since last May, for Western Mining Divisions, which include Kennecott operations in Utah, Nevada, Arizona and New Mexico. The position of assistant to the gen-

eral manager has been vacant since last year. Mr. Couch, 266 4th Avenue, Salt Lake City, Utah, was vice president and manager of operations for Molybdenum Corporation of America, New York, before joining Kennecott. He also has been employed by American Metal Climax, Inc.; Magnesium Reduction Co.; National Lead Company and Carnegie-Illinois Steel Corporation.

1942

Dr. J.A. Crookston has been elected a Vice President of the corporation, A.P. Green Refractories Company, Mexico, Mo. Dr. Crookston has been an employee of A.P. Green Refractories since August 1, 1955, and was Director of Research until his recent promotion. He received his B.S. and M.S. degrees at Rolla and his Ph.D. at the University of Illinois. While at the U. of Illinois, he was on an A.P. Green Company fellowship. Before joining the Green organization, he was employed by A.C. Spark Plug Division of General Motors Corp., and by Harbison-Walker Refractories Co., where he was the administrative assistant to the Research Director. He has held the following positions with his present employer; Ceramic Engineer; in October 1956, he became Manager of New Product Development and in March 1961, Director of Research. He is a registered professional engineer, a fellow of the American Ceramic Society, and a member of Tau Beta Pi, Sigma Xi, and Keramos. The Crookstons have two children, Jim, Jr., who attends Westminster College, Fulton, Mo., and Denny, a sophomore at Mexico High School.

1943

Albert DeValve went to Alaska in 1953 with the U.S. Army Engineer District. In 1959, he transferred to the Federal Aviation Agency, Alaskan Region, and he is now a civil engineer in plant and structures branch, Airways Facilities Division. In 1961, he married Lula Clark, a school teacher from Georgetown, Idaho. Their present address is Kinnikinnick Street, Anchorage, Alaska.

Franklin L. McCutchen has been promoted to Assistant Director of Engi-

neering, Telephone and Data Department, Page Communications Engineers, Inc., 330 White Haven St., N.W., Washington, D.C. He is responsible for all microwave multiplex, central office and outside plant telephone and data engineering. His company is a world-wide communication system. His residence address is 1672 Trapp Road, Vienna, Virginia.

1944

August R. Savu has an article in the recent issue of "The Journal of the Engineers' Club of St. Louis" on "History of the St. Louis Metal Working Industry During 1964-1964." The article was a condensed version of a feature article that appeared in the "Bicentennial Year Book, 1964-66," issued by the St. Louis Chapter of the American Society for Metals to commemorate the Bicentennial and to present a historical review of the metal working industry through the years. Mr. Savu is an engineer at the McDonnell Aircraft Corporation, St. Louis, Mo. His address is 3464 Tedmar Avenue, St. Louis.

1945

Hackman Yee has his own consulting firm, Hackman Yee & Associates, 2249 South Brentwood Blvd., St. Louis, Missouri.

1947

Samuel H. Lloyd, Jr. is now with Santa Fee Offshore, 1941 Woodcrest Avenue, LaHabra, California.

1948

Donald G. Schmidt received a Master's degree in Business Administration-Marketing from the University of Chicago, in March 1965. He is Director of Research at H. Kramer & Company, Chicago, Ill. His residence address is 330 North Grant Street, Hinsdale, Ill.

1949

Francis Nelson is now Superintendent, Hawthorne No. 3, Kansas City Light & Power Company, Kansas City, Missouri.

1950

Edward L. Johnson, who has been acting regional geologist of the Mid-

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Continent Region for the Branch of Mineral Classification, U.S. Geological Survey in Tulsa, Oklahoma, has been promoted to regional geologist. He joined the U.S.G.S. in Tulsa in October 1956 as a geologist. In February 1961, he became the acting regional geologist for the Mid-Continent Region. Before joining the Survey, he was employed for six years as a mining geologist and engineer by the American Zinc, Lead and Smelting Company, working in mining districts, in Canada, Mexico and the U.S. Mr. Johnson is a native of Joplin, Missouri. He served two years in the Navy Air Corps during World War II. He is a member of many professional societies and during the 1965-66 season, he served as editor of the Tulsa Geological Survey Newsletter and as a member of the Society's publication board. He is a Registered Professional Engineer in the State of Oklahoma and was approved as a Certified Professional Geologist by the American Institute of Professional Geologists. Mrs. Johnson is the former Lois Van Pool of Joplin and the Johnsons have two boys.

Fred Cochran has been promoted to Staff Superintendent, Kansas City Light & Power Company, Kansas City, Missouri. He is in charge of all overhead transmission lines over the system.

Donald T. King received a promotion to manager, coal preparation and distribution. U.S. Steel Corporation and was transferred from Gary, Indiana, to Pittsburgh, Pennsylvania. His new address is 2059 Menold Dr., Allison Park, Pa.

1951

Clarence J. Moser is chief of quality control, Hunter Engineering. The Hunters have six children and moved from Phoenix, Arizona to Riverside, California, last December. Their children range from 2 years to 13 years. Their address in Riverside is 2956 Bavista Street.

William H. Elwood has accepted a position with Monsanto Company, St. Louis, Mo., as senior engineer in their Central Engineering Department. He has been with a consulting firm in Lexington, Kentucky.

April 1966

Donald R. Brown has been a civilian employee for more than 9 years with the U.S. Air Force at Norton AFB, California, with the last 2½ years at San Bernardino Air Materiel Area as Value Engineering Program Project Officer. After the phaseout of SBAMA, he was transferred to the Navy Missile Center, Point Mugu, California, September 1965, as general engineer in the Quality Assurance Branch. On March 30, 1966, he was promoted to key value engineering consultant at the U.S. Naval Ship Missile System Engineering Station, Port Hueneme, California. His work is to establish a Value Engineering Program. He is a member of the Society of American Value Engineers and the American Society of Mechanical Engineers. His address is 501 Tangerine Place, Oxnard, California.

1952

John P. Zedalis is Chief, Transportation Branch, Engineering Staff, Bureau for Far East, Agency for International Development. He joined AID in July 1964 as a construction engineer in the engineering staff and was appointed Chief of Transportation Branch in May 1965. He is responsible for the coordination and monitoring of all transportation projects in the Far East, including highways, bridges, railways, ports, airfields and inland waterways. In November, he was the U.S. representative to the Bangkok, Thailand, meeting of the Inland Waterways Subcommittee, U.N. Economic Commission for Asia and the Far East. His address is 8723 Gateshead Road, Alexandria, Virginia.

1953

Robert D. Jost is now Assistant Plant Manager, Universal Atlas Cement Company, Independence, Kansas. His address is 801 Crescent Drive.

1955

Dr. James Mullen presented a paper entitled "Mossbauer Effect on Cobalt Oxides and Hydrated Cobalt Compounds" at the March meeting of the American Physical Society held in Durham, North Carolina.

Thomas J. Allen has moved from the State of New York to Oregon and

is general engineer at the Bonneville Power Administration. His residence address is 11434 N.E. Fremont Court, Portland.

Arthur G. Baebler and his work as Head of Industrial Development, Union Electric Co., St. Louis, Missouri, were portrayed in a feature article appearing recently in the St. Louis Globe Democrat. One of the major "selling" activities of Union Electric is to lure new manufacturing plants to the area or to keep those already in the area from moving out. Of the 210 prospects last year Art and his staff were successful in luring 40 of them to St. Louis. Union Electric Company is the "No. 1 Salesman" selling the St. Louis area and the department headed by Art leads the selling to the large customers. Art, his wife Iva Lee, and two sons, Matthew and Andrew, live at 784 Chevron, St. Louis.

Fred S. Kummer is president of Kummer Construction Co., Inc., 10324 Hwy 66, St. Louis, Missouri. His company has been awarded the general contracts on both the Library and Materials Research Buildings on the UMR campus. In his wildest dreams he never fathomed he would be tearing down old Jackling Gym.

William O'Neill is Chief of Public Works in Vietnam for the Agency for International Development. He is directly responsible for the largest Public Works Division in AID. His work ranges from construction of rudimentary sanitary facilities to port development, telecommunications systems, power projects, and municipal water works for Saigon.

1956

Neil A. Fiala, engineer at Union Electric Company's Meramec Plant, in St. Louis County, has been one of ten men appointed to the position of operating supervisors at Union Electric's new Sioux Plant.

Bruce R. Doe is a geologist with the Isotope Geology Branch, U.S. Geological Survey, Federal Center, Denver, Colorado. Bruce was a leader of an expedition to Japan, from September 21 to November 21, 1965, under the United States-Japan Scientific Cooperation Program for the collection of rocks

from quarternary volcanic series for isotopic studies.

1957

Dr. Robert G. Fuller is a co-author with David A. Patterson of a paper that was present at the 1966 meeting of the American Physical Society held in Durham, North Carolina. The title of the paper is "Color Centers Produced in Alkali Halide Crystals by High-Energy Electron Pulses." Fuller and Patterson are with the U.S. Naval Research Laboratory.

1959

Charles S. Schneider has been transferred from Wichita, Kansas, to Seattle, Washington, by the Boeing Company. He is assisting with the proposal on the supersonic transport (SST). His new address is 6216 129th Place, S.E., Bellevue, Washington.

Franklin W. Shadwell joined MH Equipment Company, Duncanville, Texas, as plant engineer last November. M H manufactures handling "Karts" & "Kages" and mechanical switches for warehouses. His address in Duncanville is 311 Van Rowe.

Captain Frank S. Weston, 64th Engr. Bn. APO, New York, New York 09231, will rotate to the States in May and his assignment will be the Advanced Officers Course at Ft. Belvoir, Virginia.

James P. Hartman is now teaching at North Carolina State University. His mailing address is P.O. Box 5452, Raleigh, N.C.

1960

Michael J. Bertorello has been transferred from Maracaibo, Venezuela, to Paris, France, where he is Assistant Technical Supervisor for Dowell Schlumberger. His address is in care of Dowell Schlumberger, 17 Place des Etats-Unis, Paris 16, France.

Allan L. Gregson has been promoted to engineer in the Load Dispatching Division of the Production Operations Department, Union Electric Company of Missouri. He joined Union Electric upon graduation as a student engineer in the Engineering Development Program. He was transferred to T&D Engineering as assistant engineer in

1961 and then was assigned to Production Operations in 1964.

Anthony Del Prete, Jr. has received a National Science Foundation sponsored scholarship and will attend an academic year institute in oceanography at the University of Washington, Seattle. He expects to be there until the summer of 1967. The institute begins in June.

Major Kerwood W. Barrand is now assigned to Vietnam. His address is 39th Engr. Bn. (C), APO, San Francisco, California 96312.

Vincent J. Ventimiglia, sales engineer, International Sales Division, Denver Equipment Company, has returned from a nine-week sales promotion trip which included Malaysia, Thailand, Singapore, Hong Kong and the Philippine Islands. His address is 6668 Lewis Street, Arvada, Colorado.

John P. Hager has been appointed assistant professor in the Department of Metallurgical Engineering, Colorado School of Mines, at Golden. He is teaching extractive processes, metallurgical calculations and heat and mass transfer in metallurgical systems. His appointment marks a new emphasis on ferrous metallurgy in recognition of the substantial number of graduates employed in the steel industry. Before joining the Colorado School of Mines, Hager was research assistant and laboratory instructor at MIT, where he completed his doctoral studies with a study of metal-sulfide systems. He has been industrial engineer with the AVCO corporation, Battelle Memorial Institute, Union Carbide metals and other industries. Dr. A.W. Schlechten, formerly head of Metallurgical Engineering at MSM, is the department head at Golden.

Walter F. Powell, senior assistant engineer in the Stores Department located in the Dorsett Warehouse, Union Electric Company, St. Louis Mo., has been promoted to engineer. Powell was employed with Union Electric after graduation as student engineer in the Engineer Development Program. He was transferred in 1961 to assistant engineer in the Stores Department and was made senior assistant engineer in 1964.

1961

Kenneth W. Henry, staff member

with the Sandia Corporation has been transferred to Livermore, California from Albuquerque, New Mexico. His address is 830 Mohawk Drive, Livermore.

Captain James H. Martin is visiting in Rolla. He has been serving in Korea "under two helmets," one, that of an engineer as construction inspector for the U.S. Army Engineer District and the other a flight helmet of a helicopter pilot. He pilots a H-23 helicopter to visit construction sites throughout the Republic of Korea. His next assignment is Camp Wolters, Texas, where he will serve as pilot trainer in the Helicopter School.

1962

Owen B. Funsch presented a paper on "A New Technique For Measuring Fabric Stiffness" at the ACS Division of Rubber Chemistry at the annual meeting in Miami Beach, Florida. Ply stiffness is becoming an important factor in the efficient operation of a tire factory. Synthetic fibers, compounds and adhesives in today's tires tend to increase stiffness. The larger cords and thicker ply gauges of reduced ply tires are also adding to the stiffness problem. Owen is to be married April 16, to Miss Barbara Bohn. She is secretary at Goodyear Tire and Rubber Company. Owen is a designer at Goodyear. The newly weds will live in Akron, Ohio, 1045 B. Silvercreek.

Jack H. Jones is on special assignment by McDonnell Aircraft Corporation, St. Louis, Mo., to Massachusetts Institute of Technology as a visiting staff member. He will be involved in the development of an automated engineering design system for large computers. He is systems programmer at McDonnell.

Donald R. Williams is a resident engineer with Black & Veatch Consulting Engineers. He has had this position with his company since August 1965. His address is P.O. Box 47, Osage, Kansas.

Richard E. Mantler, Jr. completed requirements for a Masters degree in Business Administration, in June 1965, at Washington University, St. Louis, Mo. He has finished the formal sales training program at Enjay Chemical Com-

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pany, a division of Humble Oil & Refining Co. His address is 14 West Elm St., Apt. 706, Chicago, Illinois.

Major Robert L. Van Vranken is stationed in Vicenza, Italy. He has his family with him and he expects to be there for a year and a half. His address is H.H.C. USASETAF Msl. Spt. Cmd. Post Engineer, APO New York, N.Y. 09221.

Larry Gene Bauer is production development engineer with Dow Chemical Company, Midland, Michigan. He spent six weeks in Western Europe, the summer of 1965, doing a market study for Dow on a certain product line. The study covered 11 countries. The Bauers have a daughter, Beth Ann, born in December 1964. Their address is 210 Federal, Midland.

Major Donald E. Wuerz graduated from the Engineer Officer Career Course, Ft. Belvoir, Va., September 1965 and was assigned a Branch Chief, General Engineer Branch, U.S. Army Engineer School, Ft. Belvoir. In January he arrived in Heilbronn, Germany, as executive officer of the 237 Engineer Battalion. His mailing address is Hq. 237 Engineer Battalion, APO, New York, New York 09176.

Russell R. Richard was released from the U.S. Navy as a salvage diving officer, December 1965, and is now a sales trainee at Caterpillar Tractor Co., Peoria, Illinois. The Richards had an increase in their family, January 8, 1966, on the arrival of Paul Brian. Their Peoria address is 9321 North Pine-tree Road.

Denny N. Bearce is working toward a Ph.D. degree in Geology at the University of Tennessee. He expects to complete the requirements by September, and at that time he and his family will move to Richmond, Kentucky, where he has accepted a position as assistant professor in the earth sciences department of the University of Eastern Kentucky. His present address is 2314 Lloyd Ave., Knoxville.

Robert Ellis Thurman has accepted a position as instructor in physics at Southwest Missouri State College, Springfield, effective September 1966. He received his M.S. degree from the University of Wisconsin where he served

as a research assistant since 1963, and has been employed as a physicist at a forest products laboratory in Madison, Wisconsin. Robert is married and the Thurmans have two children. Their address is 217 North Blair, Madison.

Ricardo E. Proano is Assistant General Superintendent, Sto. Toribio Mining Co., Av. Arequipa 1396, Lima, Peru, South America.

1963

David A. Mausshardt has been transferred from Los Angeles, California by the Presstite Division, Interchemical Corporation. He is a technical sales representative and his new assignment is in the state of Washington. His new address is 16027 S.E. 10th St., Bellevue. The Mausshardts have two girls, 2 and 4 years of age.

1st Lt. Lawrence E. Bell, Jr. received

a promotion to this rank at a recent ceremony at the U.S. Army Aviation Material Laboratories, Ft. Eustis, Virginia. He is working as an aeronautical engineer in the Propulsion Division of AVLABS.

1964

Vincent C. Wahler, Jr. is an engineer engaged in non-destructive testing, Newport News Shipbuilding and Drydock Co. Vincent is married. Mrs. Wahler is the former Jeanette Moles, of St. Louis, Missouri. The first member of their family arrived March 11, 1966, Kelly Elizabeth. Their address is 1003 Temple Lane, Newport News, Virginia.

Lt. Phillip D. Walthall just completed 9 months flight training at the Army Flight School, Ft. Rucker, Ala.

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He is now a fixed-wing pilot being assigned to Hq. U.S. Army, Saigon, Viet Nam. His address is USARV APO San Francisco, California 96307.

Jerome H. Schiesser has been advanced to Specialist 4, at the U.S. Army Materiel Command Engineer Research and Development Laboratories, Ft. Belvoir, Va. These labs are responsible for research, development and engineering for around the clock mobility in 20 fields of military engineering ranging from bridges to mine detection devices. His address is Co. R., 3rd Bn. USAECB, Fort Belvoir, Virginia.

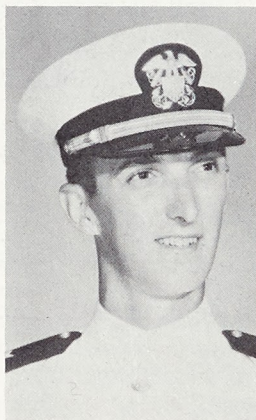
Carl Conley has been transferred by Howard, Needles, Tammen and Bergendoff, consulting engineers to Council Bluffs, Iowa, where he is resident city planner.

John P. Ruppert completed his tour of duty with the U.S. Army. He entered service in April 1964 and was assigned in Vietnam with the combat engineers from November 1965 to April 1966. John left for Europe in April 1966. John left for Europe in April to meet his fiancée, Miss Monika Nodine, the daughter of Sgt. and Mrs. J.J. Nodine, who are now stationed in Buren, Germany, and they will be married in Frankfurt on April 29th. Lt. Gary Overlease '64, who is also in Germany, will be the best man at the wedding. Mr. Ruppert's parents will attend the wedding in Europe and tour the continent. The couple will honeymoon in Bavaria, Austria and Switzerland. John is undecided about his civilian employment at this time.

Suresh J. Patel has joined the Dupont Company's Spruance Film R&D Laboratory in Richmond, Virginia. His address is 2610 Lynhaven Ave., Richmond.

James C. O'Neal has changed his employment. He previously was Auto-din Site Supervisor at Tinker AFB, Oklahoma, for Western Union Telegraph Co. He has accepted a position as Guidance System, Computer Design Engineer, for the C-5A, at Lockheed-Georgia Co. His new address is 2579 Benson Pool Road, Smyrna, Georgia.

William L. Kruse is now employed by the Corporation of America on the satellite tracking ship U.S.S. General Vandenberg. He was previously employed by the Control Data Corporation, Minneapolis, Minnesota. His address is: U.S. General Vandenberg, FPO, San Francisco, California.



Lt. (jg) C. Stephen Perry

Lt. (jg) C. Stephen Perry is presently assigned to U.S.S. Kitty Hawk, an attack aircraft carrier operating off the coast of Vietnam. He received his commission in October 1964 and just recently was promoted to his present rank. He expects to visit the campus this summer. He would appreciate hearing from his classmates. His address is W/W1, USSS Kitty Hawk (CVA-63), FPO San Francisco, California 96601.

1965

2nd Lt. David R. Williams is presently assigned in Viet Nam. His address is 510th Engr. Co. (M) (DS), APO, San Francisco, California 96312. He would appreciate hearing from his Miner friends. His wife, Joyce, is residing at 508 North Main, Kirksville, Missouri, while he is at his present assignment.

John L. Cline is associate engineer in the airplane division, The Boeing Company. He has been with Boeing one year and now resides at 2290 Kent, Des Moines Road, Des Moines, Washington.

William J. Price worked for eight months after graduation at Lilly Industrial Coatings at Indianapolis, Indiana, as a chemist formulator until he was called to active duty with the U.S. Army. He attended the Chemical Officer Basic Course at Ft. McClellan, Alabama from January 15 to March 1966. He is presently assigned as research and development coordinator in the R&D laboratories at Edgewood Arsenal, Maryland. His mailing address is P.O. Box 169, Edgewood, Maryland.

1966

Carl M. Lund has been awarded a Woodrow Wilson Fellowship for 1966-67. Carl received his degree in physics from UMR and is teaching on a graduate assistantship and working on a Ph.D. degree at the University of Illinois. Woodrow Wilson recipients total 1,408 potential college teachers from different colleges and universities in the United States and Canada.

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